

Table: Times to clinical endpoint in days measured in 58 African children hospitalized with respiratory tract infection, dichotomized by median biomarker values. Clinical markers (tachypnea and RISC) are given as comparators

CRP			
	≤18ug/mL	>18ug/mL	P-value
Time to resolution of tachypnea	0.85 (0-2.2) ¹	1.5 (0.28-2.6) ¹	0.11
Time to resolution of tachycardia	0.30 (0-0.67)	0.54 (0.17-0.90)	0.47
Time to resolution of fever	0.1 (0-0.22)	0.26 (0-0.52)	0.33
Time to wean oxygen	3.0 (1.9-4.0)	4.3 (1.8-6.9)	0.39
Time to breastfeed or eat	0.09 (0-0.18)	0.03 (0-0.07)	0.13
Time to sit	0.32 (0-0.83)	0.41 (0.043-0.77)	0.896
CHI3L1			
	≤32ug/mL	>32ug/mL	P-value
Time to resolution of tachypnea	0.70 (0-2.1) ¹	1.5 (0-4.5) ¹	0.017*
Time to resolution of tachycardia	0.017 (0-0.18)	1.0 (0-3.0)	<0.001*
Time to resolution of fever	0.12 (0.03-0.22)	0.27 (0-0.62)	0.486
Time to wean oxygen	2.2 (0.79-3.7) ¹	4.7 (3.4-6.0) ¹	0.009*
Time to breastfeed or eat	0.02 (0-0.07)	0.02 (0-0.17)	0.297
Time to sit	0.036 (0-0.25)	0.62 (0-2.0)	0.018*
LCN2			
	≤95ng/mL	>94ng/mL	
Time to resolution of tachypnea	0.68 (0.45-1.6) ¹	2.1 (2.3-4.5) ¹	0.016*

Time to resolution of tachycardia	0.039 (0-0.93)	0.84 (0.34-1.3)	0.001*
Time to resolution of fever	0.097 (0-0.2)	0.28 (0-0.58)	0.16
Time to wean oxygen	2.9 (1.6-4.2)	4.5 (2.3-6.7)	0.378
Time to breastfeed or eat	0 ²	0.098 (0-0.50)	0.025*
Time to sit	0.11 (0-0.51)	0.57 (0-2.0)	0.10
Respiratory Rate for Age ³			
	No Tachypnea	Tachypnea	P-value
Time to resolution of tachypnea	0	2.87 (0.0-19.88)	0.147
Time to resolution of tachycardia	0.31 (0.00-1.9)	1.03 (0.00-19.74)	0.468
Time to resolution of fever	0.68 (0.0-0.54)	0.69 (0.0-19.74)	0.147
Time to wean oxygen	2.8 (0.0-7.54)	3.29 (0.0-16.88)	1.0
Time to breastfeed or eat	0.079 (0.0-0.71)	0.12 (0.0-0.92)	0.493
Time to sit	0 ²	0.33 (0.0-2.03)	0.344
RISC Score			
	≤3	>3	P-value
Time to resolution of tachypnea	2.46 (0.0-19.88)	2.75 (0.0-10.09)	0.777
Time to resolution of tachycardia	0.97 (0-19.74)	0.82 (0-4.8)	0.777
Time to resolution of fever	0.78 (0-19.74)	0.18 (0-1.28)	0.777
Time to wean oxygen	3.24 (0-16.88)	3.16 (0-12.72)	0.777
Time to breastfeed or eat	0.058 (0-0.71)	0.23 (0-0.92)	0.065
Time to sit	0.25 (0-2.03)	0.41 (0-1.34)	0.844

* Indicates a statistically significant difference (p<0.05) between groups.

Times to endpoint are in days and expressed as mean (range), unless otherwise indicated

¹Indicates time to endpoint expressed in median (IQR)

²All patients feeding from time of admission

³Respiratory rate > 99th percentile for age {Fleming, 2011 #1}.